

PATENT
ATTORNEY DOCKET NO. 50413/013001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| | | | |
|---------------|---|-------------------|-------------------------|
| Applicant: | Jae Yong Han et al. | Confirmation No.: | 2565 |
| Serial No: | 10/569,847 | Art Unit: | 1633 |
| Filed: | April 10, 2006 | Examiner: | Fereydoun Ghotb Sajjadi |
| Customer No.: | 21559 | | |
| Title: | Method for Culturing Avian Spermatogonial Stem Cells and Avian Spermatogonial Stem Cells Prepared Thereby | | |

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

DECLARATION UNDER 37 C.F.R. § 1.132

I declare:

1. I, Jae Yong Han the chief of the inventors of United State Patent application serial No. 10/569,847 declare as follows:

2. The present invention of the method for long term culture of spermatogonial stem cells (SSCs) from avian testes satisfies the long felt but unresolved need. The long felt but unresolved need in the field the present invention pertains to is to prepare transgenic chicken with high efficiency.

3. SSCs have an ability to self-renew and to produce large numbers of differentiating germ cells that become spermatozoa throughout postnatal life and transmit genetic information to the next generation. In vitro manipulation of SSCs offers the opportunity to study the mechanisms of continuation of the germline and to develop novel techniques for germline modification or therapy and producing of transgenic animal. In other words, SSCs can be utilized in the generation of transgenic animal or gene therapy of sperm cells through the introduction of gene into SSCs and